

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) A mobile system which is mounted on a mobile unit, comprising:

a position measuring section for measuring the position of said mobile unit; and

a controller for determining whether or not continuing the position measuring operation is required after a main operation of said mobile unit has stopped and for controlling said position measuring section to continue the position measuring operation after stopping the main operation when the position measuring operation is required.

2. (Original) The mobile system according to claim 1, further comprising a positioning stopper for stopping said position measuring operation under the control of said controller.

3. (Previously presented) The mobile system according to claim 2, wherein said positioning stopper comprises a clock section which starts the clocking after stopping the main operation.

4. (Previously Presented) The mobile system according to claim 1, further comprising an operation stop detector for detecting the stop of the main operation;

wherein said operation stop detector is provided on a power line for supplying an electric power to said mobile system.

5. (Previously Presented) The mobile system according to claim 1, wherein the controller determines that continuing the position measuring operation is required after the main operation has stopped when the mobile system moves after the main operation has stopped.

6. (Previously Presented) The mobile system according to claim 5, wherein the position measuring section comprises a GPS receiver and a terrestrial-based position sensing circuit, and wherein the controller determines that the mobile system moves after the main operation has stopped when there is continuous output from the terrestrial-based position sensing circuit after the main operation has stopped.

7. (Previously Presented) The mobile system according to claim 6, wherein the terrestrial-based position sensing circuit comprises a gyro.

8. (Previously Presented) The mobile system according to claim 1, wherein the controller determines that continuing the position measuring operation is required after the main operation has stopped when a substantial amount of time would be required for the position measuring section to reacquire position data to measure the position of the mobile system once the main operation is resumed.

9. (Previously Presented) The mobile system according to claim 8, wherein the position measuring section comprises a GPS receiving circuit and the position data comprises data received from GPS satellites.

10. (Previously Presented) The mobile system according to claim 1, wherein the position measuring section comprises a GPS receiving circuit and a terrestrial-based position sensing circuit, and

wherein the controller determines that continuing the position measuring operation is required after the main operation has stopped when an output of the terrestrial-based position sensing circuit is not reliable.

11. (Previously Presented) The mobile system according to claim 10, wherein the terrestrial-based position sensing circuit comprises a gyro.

12. (Previously Presented) The mobile system according to claim 1, wherein the controller instructs said position measuring section to stop performing the position measuring operation after the main operation has stopped when the position measuring operation is not required.

13. (Previously Presented) A system which is mounted on a mobile unit, comprising:

a receiving circuit that receives data that is transmitted from an external source;
a control circuit that determines a position of the mobile unit based on the data,
wherein, after a main operation of the mobile unit stops, the control circuit determines
whether or not continuing to determine the position of the mobile unit is required, and
wherein, if continuing to determine the position of the mobile unit is required, the control
circuit continues to determine the position of the mobile unit after the main operation has
stopped.

14. (Previously Presented) The system according to claim 13, wherein the mobile unit
comprises a vehicle, and
wherein the main operation comprises an engine running operation of the vehicle.

15. (Previously Presented) The system according to claim 13, wherein the control circuit
determines that continuing to determine the position of the mobile unit is required after the main
operation when the mobile unit moves after the main operation has stopped.

16. (Previously Presented) The system according to claim 15, further comprising:
a terrestrial-based position sensing circuit,
wherein the receiver circuit comprises a GPS receiver, and

wherein the control circuit determines that the mobile unit moves after the main operation has stopped when there is continuous output from the terrestrial-based position sensing circuit after the main operation has stopped.

17. (Previously Presented) The system according to claim 16, wherein the terrestrial-based position sensing circuit comprises a gyro.

18. (Previously Presented) The system according to claim 13, wherein the control circuit determines that continuing to determine the position of the mobile unit is required after the main operation has stopped when a substantial amount of time would be required to reacquire the data via the receiving circuit once the main operation is resumed.

19. (Previously Presented) The system according to claim 18, wherein the receiving circuit comprises a GPS receiving circuit and the data comprises data received from GPS satellites.

20. (Previously Presented) The system according to claim 13, further comprising:
a terrestrial-based position sensing circuit,
wherein the receiving circuit comprises a GPS receiving circuit, and

wherein the control circuit determines that continuing to determine the position of the mobile unit is required after the main operation has stopped when an output of the terrestrial-based position sensing circuit is not reliable.

21. (Previously Presented) The system according to claim 20, wherein the terrestrial-based position sensing circuit comprises a gyro.

22. (Previously Presented) The system according to claim 13, wherein the control circuit stops determining the position of the mobile unit after the main operation has stopped when determining the position of the mobile unit is not required.

23. (Previously Presented) A system which is mounted on a mobile unit, comprising:
a first power source that outputs a first power signal;
a second power source that outputs a second power signal;
a position measuring circuit that receives data that is transmitted from an external source,
wherein the data is used to determine a position of the mobile unit; and
a control circuit that determines if the second power signal is appropriate,
wherein, if the second power signal is not appropriate, the control circuit determines
whether or not continuing to determine the position of the mobile unit is required, and

wherein, if continuing to determine the position of the mobile unit is required, the control circuit instructs the first power signal to be at least indirectly supplied to the position measuring circuit.

24. (Previously Presented) The system as claimed in claim 23, wherein the mobile unit is a vehicle and wherein the system further comprises an ignition switch, and

wherein the second power signal is not appropriate when the ignition switch is off and wherein the second power signal is appropriate when the ignition switch is on.

25. (Previously Presented) The system as claimed in claim 23, wherein, when the second power signal is not appropriate, the control circuit instructs the first power signal to be at least indirectly supplied to the position measuring circuit when both (1) continuing to determine the position of the mobile unit is required and (2) a predetermined time has not elapsed since the second power signal has not been appropriate.

26. (Previously Presented) The system as claimed in claim 25, wherein, when the second power signal not appropriate, the control circuit prevents the first power signal from being at least indirectly supplied to the position measuring circuit, when either (1) continuing to determine the position of the mobile unit is not required or (2) the predetermined time has elapsed since the second power signal has not been appropriate.

27. (Previously Presented) The system as claimed in claim 25, further comprising a clock, wherein the control circuit instructs the clock to start counting after the control circuit determines that the second power signal is not appropriate, and wherein the control circuit determines whether or not the predetermined time has elapsed based on an output of the clock.

28. (Previously Presented) The system as claimed in claim 27, wherein, when the second power signal is appropriate, the control circuit resets the clock.

29. (Previously Presented) The system as claimed in claim 26, further comprising a clock, wherein the control circuit instructs the clock to start counting after the control circuit determines that the second power signal is not appropriate, and wherein the control circuit determines whether or not the predetermined time has elapsed based on an output of the clock.

30. (Previously Presented) The system as claimed in claim 29, wherein, when the second power signal is appropriate, the control circuit resets the clock.

31. (Previously Presented) system as claimed in claim 23, wherein the control circuit determines if the first power signal is appropriate, and

wherein, when the first power signal is not appropriate, the position of the mobile unit stops being determined.

32. (Previously Presented) The system as claimed in claim 31, wherein, the control circuit determines whether or not determining the position of the mobile unit is required only if both the first power signal is appropriate and the second power signal is appropriate.

33. (New) The mobile system according to claim 1, wherein the main operation of the mobile unit is stopped when the main operative power for the mobile unit is turned off by a user.

34. (New) The system according to claim 13, wherein the main operation of the mobile unit is stopped when the main operative power for the mobile unit is turned off by a user.

35. (New) The mobile system according to claim 1, wherein the controlling of the position measuring section to continue the position measuring operation after stopping the main operation is performed while the main operation is stopped.

36. (New) The system according to claim 13, wherein when continuing to determine the position of the mobile unit is required, the control circuit continues to determine the position of the mobile unit while the main operation is stopped.